

In the Claims

Please amend the claims as follows.

1. (Currently Amended) A production method for a paper pulp, comprising steps of:

- (a) providing a culture solution;
- (b) adding a fiber plant into said culture solution;
- (c) adding a suspension of a microorganism into said culture solution wherein said microorganism is one selected from a group consisting of a *Bacillus licheniformis* (PMBP-m5), a *Bacillus subtilis* (PMBP-m6) and a *Bacillus amyloliquefaciens* (PMBP-m7), which are isolated from one of a fiber plant and a livestock excrement compost;

- (d) fermentatively culturing said culture solution for preparing a pulp solution;
- (e) boiling said pulp solution;
- (f) pulping said pulp solution; and
- (g) screening said pulp solution for isolating a paper pulp from said pulp solution.

2. (Original) The method as claimed in claim 1, wherein said fiber plant is a non-woody fiber plant.

3. (Original) The method as claimed in claim 1, wherein said fiber plant is pretreated by one selected from a group consisting of a relatively high pressure treatment under a relatively high temperature, a steaming treatment under a relatively high temperature, a boiling treatment under a relatively high

temperature, a fumigated treatment and a soaking treatment under a room temperature.

4. (Currently Amended) The method as claimed in claim 1, wherein said fiber plant is added into said culture solution ~~[[by]]~~ in a ratio ~~[[of]]~~ ranged from 4 to ~~[[~]]~~ 15% (w/v).

5. (Canceled)

6. (original) The method as claimed in claim 1, wherein said microorganism is inoculated at a concentration ranged from 0 to 108 cfu / ml.

7. (original) The method as claimed in claim 1, wherein said microorganism is a Gram positive bacterium.

8. (Canceled)

9. (original) The method as claimed in claim 1, wherein said fermentatively culturing process is proceeded at a temperature ranged from 20 to 50 0C.

10. (original) The method as claimed in claim 1, wherein said fermentatively culturing process is one of a static culture and a shaking culture.

11. (currently amended) The method as claim in claim 1, wherein said fermentatively culturing process is proceeded over 0 ~~[[~]]~~ to 10 days.

12. (currently amended) The method as claimed in claim 1, wherein said step (e) further comprises a step of adding ~~[[0~4 % (w/v)]]~~ CaO with a concentration ranged from 0 to 4 % (w/v) into said pulp solution and boiling said pulp solution for

25 [[~]] to 40 minutes under a temperature ranged from 120°C [[~]] to 150°C.

13. (Currently Amended) The method as claim in claim 1, wherein said pulp solution is screened by 18 [[~]] to 300 meshes.

14. (Currently Amended) A biopulping method for a non-woody fiber plant, comprising steps of:

- (a) providing a culture solution;
- (b) adding a non-woody fiber plant into said culture solution;
- (c) adding a suspension of a microorganism into said culture solution wherein said microorganism is one selected from a group consisting of a Bacillus licheniformis (PMBP-m5), a Bacillus subtilis (PMBP-m6) and a Bacillus amyloliquefaciens (PMBP-m7), which are isolated from one of a fiber plant and a livestock excrement compost;
- (d) fermentatively culturing said culture solution for preparing a pulp solution;
- (e) boiling said pulp solution;
- (f) pulping said pulp solution; and
- (g) screening said pulp solution for isolating a paper pulp from said pulp solution.

15. (original) The method as claimed in claim 14, wherein said fiber plant is pretreated by one selected from a group consisting of a relatively high pressure treatment under a relatively high temperature, a steaming treatment under a relatively high temperature, a boiling treatment under a relatively high temperature, a fumigated treatment and a soaking treatment under a room temperature.

16. (Original) The method as claimed in claim 14, wherein said inoculation concentration of a microorganism is at a range from 0 to 10^8 cfu / ml.

17. (Canceled)

18. (Currently Amended) The method as claimed in claim [[1]] 12, wherein said step (e) further comprises a step of adding [[0~4 % (w/v)]] CaO with a concentration ranged from 0 to 4 % (w/v) into said pulp solution and boiling said pulp solution for 25 [[~]] to 40 minutes under a temperature ranged from 120 °C to 150 °C.

19. (Currently Amended) The method as claim in claim 14, wherein said pulp solution is screened by 18 [[~]] to 300 meshes.

20. - 22. (Canceled).